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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722,565	11/28/2003	Tatsuya Sukchiro	OKI 391 4989		
23995 RABIN & Ber	7590 04/20/2007 do. PC	EXAMINER			
1101 14TH STREET, NW			VO, HUYEN X		
SUITE 500 WASHINGTO	N, DC 20005	ART UNIT	PAPER NUMBER		
	,	2626			
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		04/20/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application	on No. Applicant(s)					
		10/722,56	5 5	SUKEHIRO, TATSUYA				
		Examiner		Art Unit				
•		Huyen X.	Vo	2626				
Period fo	The MAILING DATE of this communication reply	n appears on the	cover sheet with the d	correspondence ad	ddress			
WHIC - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory price to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THE FR 1.136(a). In no even on. period will apply and wi statute, cause the app	IIS COMMUNICATION ent, however, may a reply be tin II expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on	29 Sentember 2	0004		•			
2a)□	Responsive to communication(s) filed on <u>29 September 2004</u> . This action is FINAL . 2b)⊠ This action is non-final.							
3)	,							
ب,-	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims	,		·				
4)⊠	Claim(s) 1-11 is/are pending in the applica	ation	•					
7)63	4) Claim(s) <u>1-11</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are withdrawn from consideration.							
	Claim(s) <u>1-11</u> is/are rejected.							
	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction a	and/or election re	equirement.	•				
	ion Papers		•					
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>20 September 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
		ne Examiner. No	ne me attached Office	Action of form F	10-132.			
_	under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	a) ☐ All b) ☐ Some * c) ☑ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
. * 0	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	see the attached detailed Office action for the section for th	a list of the certi	ned copies not receive	ea				
	•							
Attachmen	at(s)		_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Pager No(s)/Mail Date								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application								
Paper No(s)/Mail Date <u>1 sheet</u> . 6) Other:								

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 2. Claims 10-11 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 3. Claim 10-11 is drawn to a "program" per se as recited in the preamble and as such is non-statutory subject matter (method of claim 10 can be written in a computer program suggested by claim 11). See MPEP § 2106.IV.B.1.a. Data structures not claimed as embodied in computer readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention, which permit the data structure's functionality to be realized. In contrast, a claimed computer readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory. Similarly, computer programs claimed as computer listings per se, i.e., the descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define

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any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

Claims 10-11 are drawn to an aligning method for multilingual documents as as aligns in sorts of languages. In order for a claimed invention to be considered statutory under 35 U.S.C. 101, it must be useful and accomplish a **practical application**. That is, it must produce a "useful, concrete and tangible result" (*State Street, 149 F.3d at 1373-74, 47 USPQ2d at 1601-02*). In the present case, the final result of claim 10 only refers aligning the documents in the n sorts of languages. There is no indication of a "useful, concrete and tangible result". As such, claim 10 is directed to non-statutory subject matter. The dependent claim 11 fails to overcome the 35 U.S.C. 101 rejection directed towards independent claim 1, and thus, are also directed to non-statutory subject matter.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by applicant's admitted prior art.

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7. Regarding claims 1 and 10-11, applicant's admitted prior art discloses an alignment system and method for multilingual documents as aligns the documents in n sorts (: n being a natural number of at least 2) of languages, comprising:

morphological analysis means for dividing the document in each of the languages, every word (first paragraph on page 2 of the specification);

means for selecting two of the n sorts of languages of the documents (page 2 of the specification);

means for computing an evaluation function for the documents in the two selected sorts of languages (page 2 of the specification); and

means for aligning the documents in the n sorts of languages, in accordance with an evaluated result for the documents in the two sorts of languages (pages 2-3 of the specification).

- 8. Regarding claim 2, applicant's admitted prior art further discloses an alignment system for multilingual documents as defined in claim 1, wherein said morphological analysis means includes means for segmenting the document in each of the languages, every sentence, and means for further dividing each of the segmental sentences, every word (pages 2-3 of the specification).
- 9. Regarding claim 3, applicant's admitted prior art further discloses an alignment system for multilingual documents as defined in claim 1, wherein said means for

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selecting two of the n sorts of languages of the documents selects (n-1) combinations of the kth and (k+1)th documents (: k being a natural number of 1 to (n-1)) when the documents in the n sorts of languages are arranged in any desired sequence (pages 2-3 of the specification).

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- 10. Regarding claim 4, applicant's admitted prior art further disclose an alignment system for multilingual documents as defined in claim 1, wherein said means for selecting two of the n sorts of languages of the documents selects n(n-1)/2 combinations (pages 2-3 of the specification), and further comprising computed result holding means for holding therein results computed with the evaluation function (pages 2-3 of the specification).
- 11. Regarding claim 6, applicant's admitted prior art further discloses an alignment system for multilingual documents as defined in claim 1, wherein the evaluation function is expressed by the following formula: h(x, y)=2.times.f.sub.m(x, y)/(f.sub.j(x)+f.sub.j(y)) where h(x, y) denotes the evaluation function, x denotes a sentence in one language (original sentence), y a sentence in the other language (translated sentence), f.sub.m(x, y) the number of independent words aligned in the sentences x and y, f.sub.j(x) the number of independent words in the sentence x, and f.sub.j(y) the number of independent words in the sentence y (pages 2-3 of the specification).

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12. Regarding claims 7-9, applicant's admitted prior art further discloses an alignment system for multilingual documents as defined in claim 1, further comprising means for displaying any mismatching part when alignments of the documents in at least three of the n sorts of languages of the documents have mismatched (pages 2-3 of the specification), wherein said means for computing an evaluation function aligns the documents while optimizing the alignment so that a sum of values of the evaluation function may be maximized (pages 2-3 of the specification), further comprising means for indicating a language pair which affords a high correct solution rate of the alignment, while investigating similarity data between the pair of languages (pages 2-3 of the specification).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huyen X. Vo whose telephone number is 571-272-7631. The examiner can normally be reached on M-F, 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HXV

4/14/2007